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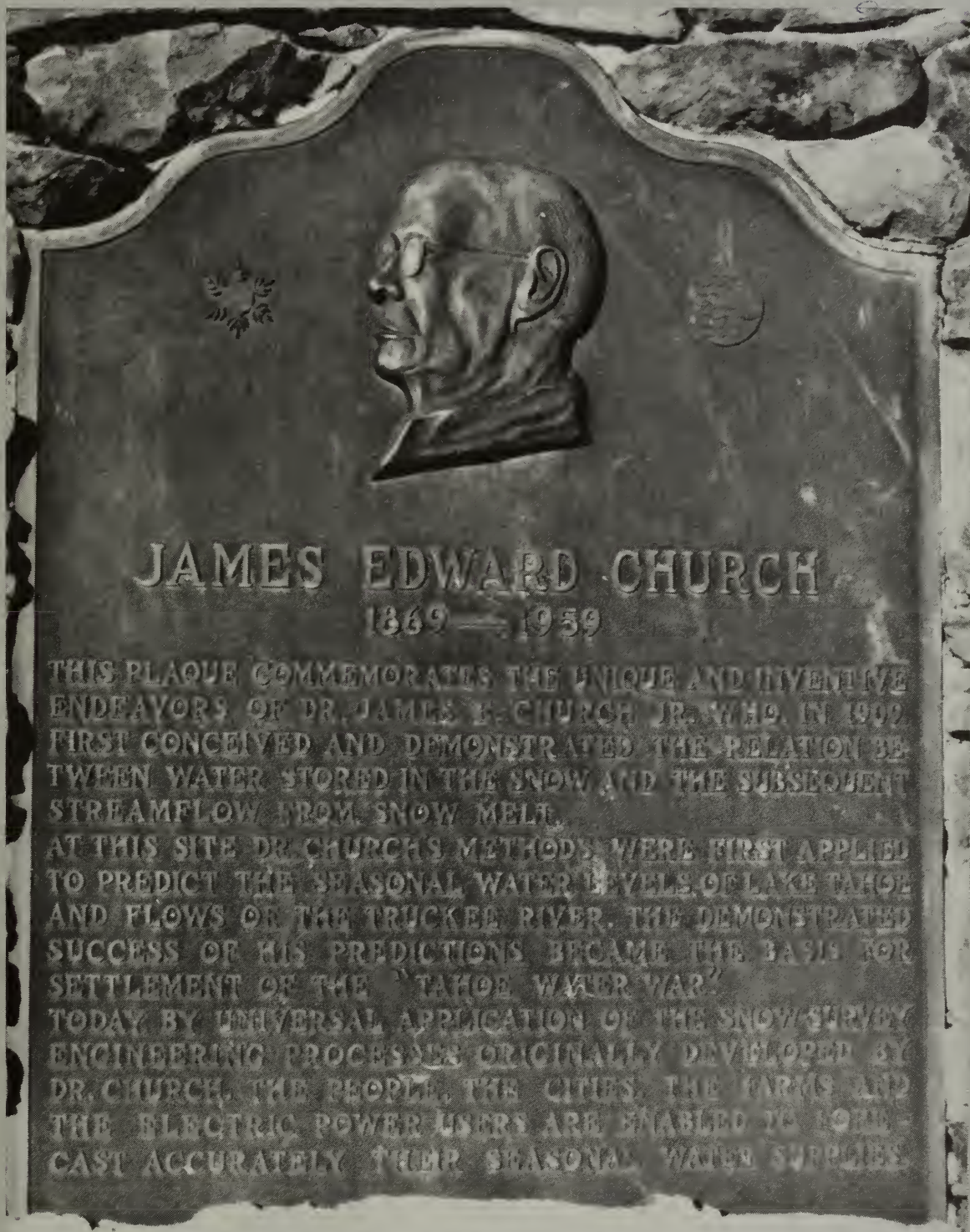
Soil
Conservation
Service

Reno
Nevada



Nevada Water Supply Outlook

February 1, 1989



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Soil Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

An error is associated with each forecast, and this error decreases as the season progresses and more data becomes available. To express the range of error that can be expected, "most probable" forecasts are issued along with a range representing a "reasonable minimum" and a "reasonable maximum". Actual streamflow can be expected to fall within this range in eight out of ten years. Additionally two specific scenarios are provided based on the assumption that subsequent precipitation will be "wet", above average, or "dry", below average.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola Ave., Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Building A, 3rd floor, Denver, CO 80211
Idaho	3244 Elder Street, Room 124, Boise, ID 83705
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 87102-3157
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	W. 920 Riverside, Room 360, Spokane, WA 99201-1080
Wyoming	Federal Building, 100 "B" Street, Room 3124, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 248, Portland, OR 97209-3489.

Water supply reports published by other agencies:

California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

Nevada Water Supply Outlook

and

Federal - State - Private Cooperative Snow Surveys

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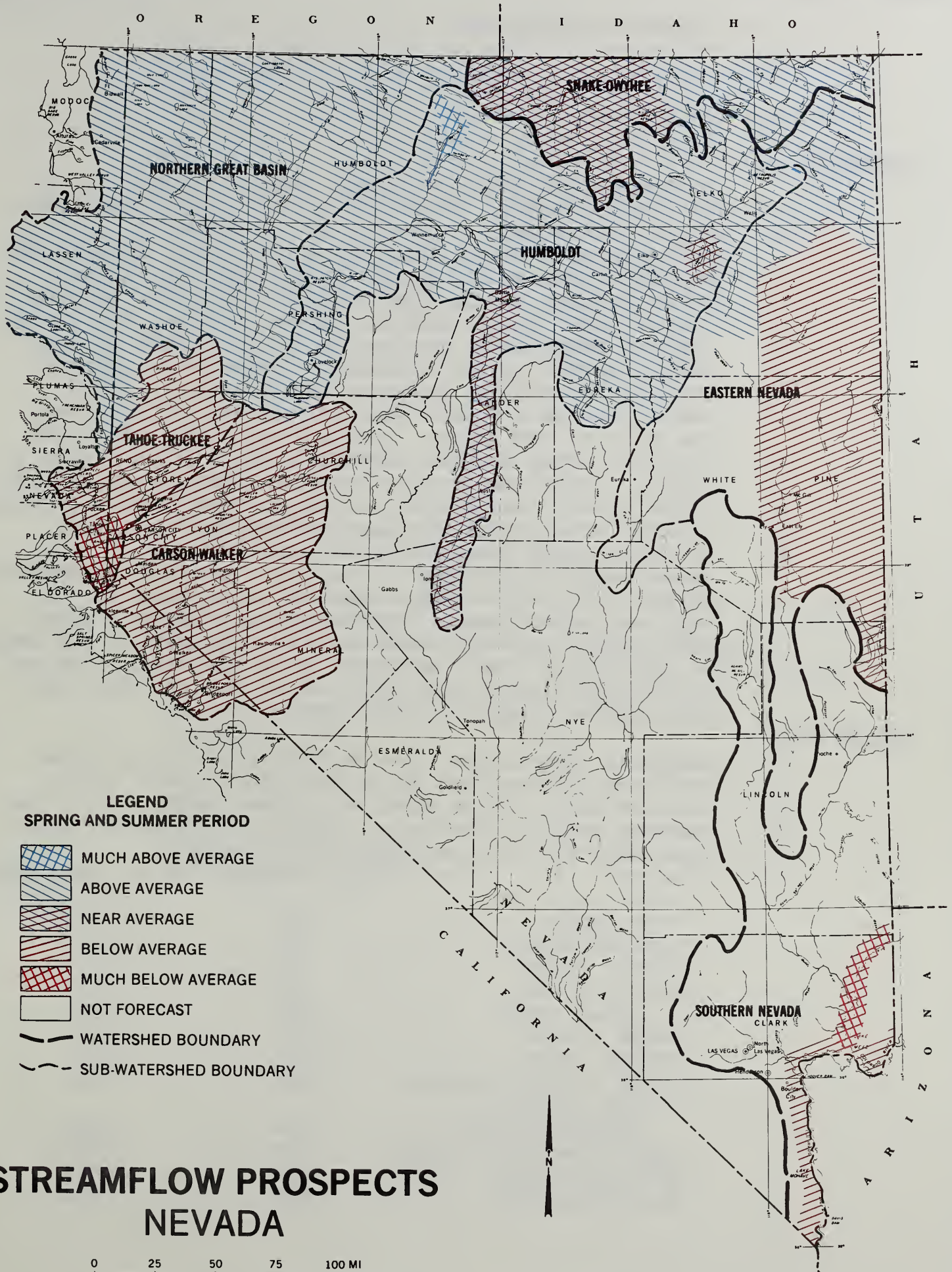
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GENERAL OUTLOOK

SUMMARY

SNOWPACK CONDITIONS WORSENERED DURING JANUARY DUE TO THE SMALL AMOUNTS OF PRECIPITATION NEVADA RECEIVED DURING THE MONTH. HOWEVER, AT THE TIME OF PUBLICATION, NEVADA RECEIVED SIGNIFICANT AMOUNTS OF PRECIPITATION WHICH HELPED AREAS THAT HAD FALLEN BELOW AVERAGE REACH NEAR TO SLIGHTLY ABOVE AVERAGE CONDITIONS. PRECIPITATION DURING JANUARY WAS BELOW AVERAGE THROUGHOUT THE ENTIRE STATE. YEAR TO DATE PRECIPITATION (FROM OCTOBER 1, 1988) ALSO SUFFERED BECAUSE OF THE LOW JANUARY PRECIPITATION. TOTAL PRECIPITATION FOR THE YEAR IS NEAR TO BELOW NORMAL FOR MOST OF THE STATE. THE CARSON RIVER AND LOWER COLORADO RIVER BASINS HAVE WELL BELOW NORMAL YEARLY TOTALS, WHILE THE LOWER HUMBOLDT RIVER BASIN REPORTS ABOVE NORMAL PRECIPITATION TOTALS. RESERVOIR STORAGE REMAINS WELL BELOW AVERAGE, EXCEPT FOR THE LOWER COLORADO RIVER BASIN WHICH IS ABOVE AVERAGE. THE SEVEN MAJOR RESERVOIRS SUPPLYING WATER FOR NORTHERN NEVADA WATER USERS WERE ONLY 9% OF AVERAGE ON THE LAST DAY OF JANUARY. STREAMFLOW FORECASTS PREDICT NEAR NORMAL TO WELL ABOVE NORMAL STREAMFLOWS FOR MOST OF THE STATE. ONLY WESTERN, SOUTHERN, AND PORTIONS OF EASTERN NEVADA ARE FORECAST AT HAVING BELOW OR WELL BELOW AVERAGE STREAMFLOWS.

SNOWPACK

Snowpack conditions, though somewhat reduced from last month, remained above average to well above average for a large portion of the state. Only the western part of Nevada and the Eastern Nevada Basin were near to below average on February 1.

BASIN	% OF AVERAGE	% OF LAST YEAR
-----	-----	-----
LAKE TAHOE.....	87%	121%
TRUCKEE RIVER.....	90%	120%
CARSON RIVER.....	89%	114%
WALKER RIVER.....	89%	117%
N. GREAT BASIN.....	188%	185%
SNAKE RIVER.....	125%	151%
OWYHEE RIVER.....	139%	181%
UPPER HUMBOLDT RIVER.....	153%	153%
CLOVER VALLEY &		
FRANKLIN RIVER.....	127%	164%
LOWER HUMBOLDT RIVER.....	178%	147%
HUMBOLDT RIVER (TOTAL)....	165%	150%
EASTERN NEVADA.....	81%	82%

PRECIPITATION

Precipitation during the month of January was below normal to well below normal for the entire state. Western Nevada only received 1/4 - 1/3 of their normal precipitation for January. Total precipitation since October 1, 1988 ranged from well below normal in the Carson River and Lower Colorado River basins to above average in the Lower Humboldt River Basin.

BASIN	JANUARY % OF AVERAGE	YEAR TO DATE % OF AVERAGE
-----	-----	-----
LAKE TAHOE.....	28%	75%
TRUCKEE RIVER.....	34%	71%
CARSON RIVER.....	26%	67%
WALKER RIVER.....	24%	79%
N. GREAT BASIN.....	85%	93%
UPPER HUMBOLDT RIVER.....	71%	86%
LOWER HUMBOLDT RIVER.....	81%	120%
CLOVER VALLEY & FRANKLIN RIVER.....	84%	104%
SNAKE RIVER.....	67%	96%
OWYHEE RIVER.....	85%	105%
EASTERN NEVADA.....	52%	79%
LOWER COLORADO RIVER.....	50%	45%

RESERVOIRS

Reservoir storage improved slightly during the month of January but remains well below average, except in southern Nevada where storage is above average.

BASIN	% CAPACITY	% OF AVERAGE
-----	-----	-----
LAKE TAHOE.....	-2%	-5%
TRUCKEE RIVER.....	27%	52%
CARSON RIVER.....	17%	25%
WALKER RIVER.....	14%	26%
LOWER HUMBOLDT RIVER.....	5%	9%
OWYHEE RIVER.....	17%	45%
LOWER COLORADO RIVER.....	89%	119%
SEVEN MAJOR RESERVOIRS....	5%	9%

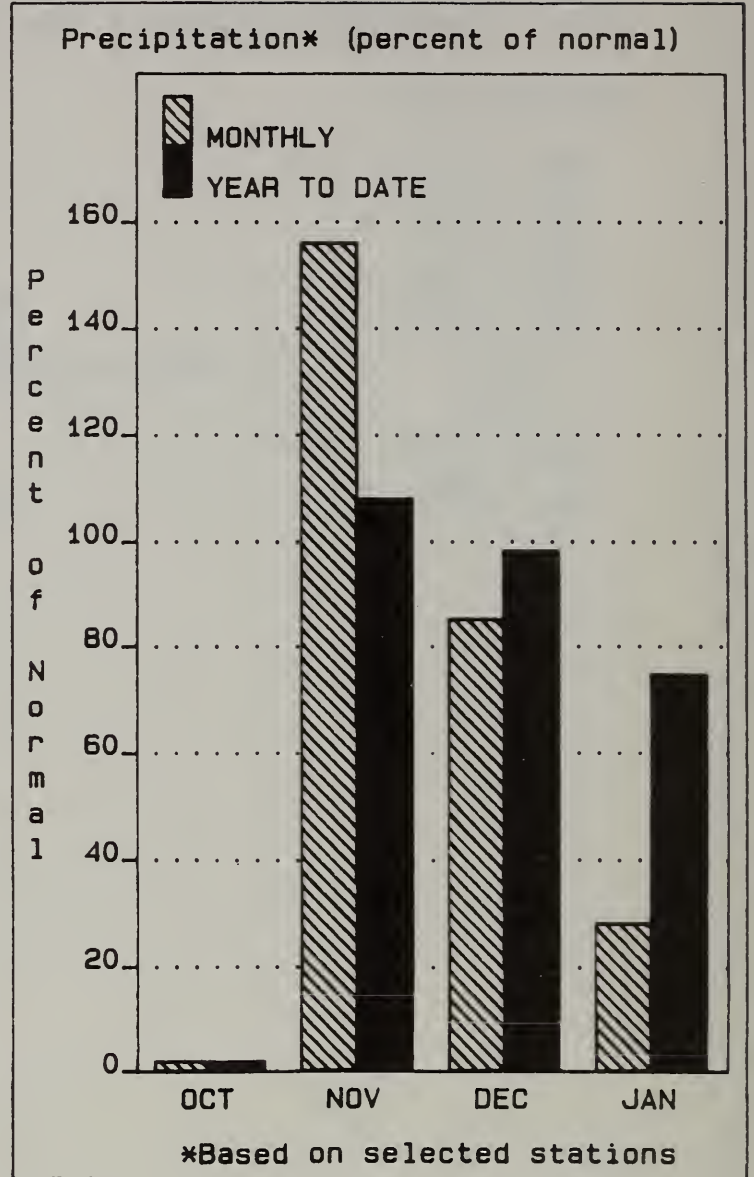
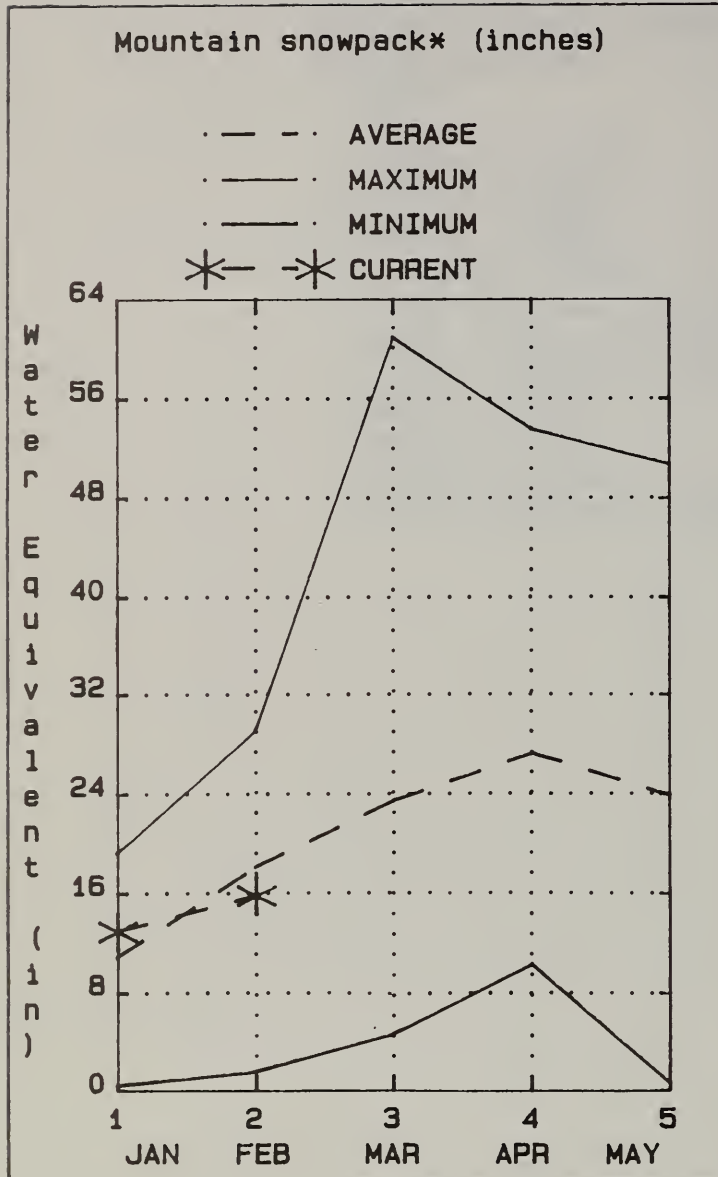
STREAMFLOW

Most of the streams in the state are expected to be near to well above average. Some streams in the Truckee River, Carson River, Walker River and Lower Colorado River basins are forecast at below or well below average.

BASIN	% OF AVERAGE
-----	-----
TRUCKEE RIVER.....	81%- 98%
CARSON RIVER.....	67%- 86%
WALKER RIVER.....	71%- 72%
N. GREAT BASIN.....	111%-134%
UPPER HUMBOLDT RIVER.....	106%-132%
LOWER HUMBOLDT RIVER.....	105%-147%
CLOVER VALLEY & FRANKLIN RIVER.....	130%
SNAKE RIVER.....	111%
OWYHEE RIVER.....	105%-112%
EASTERN NEVADA.....	81%-114%
LOWER COLORADO RIVER.....	54%- 79%



LAKE TAHOE BASIN



Snowpack conditions in the Lake Tahoe Basin took a turn for the worse during January. Significantly low amounts of precipitation resulted in a below average snowpack on February 1. The basin currently has 87% of the February 1 average and 121% of the water content present last year. January precipitation for the Lake Tahoe Basin was 28% of average and 41% of last year. Precipitation since October 1, 1988 is 75% of average and 112% of last year. The elevation at Lake Tahoe on the last day of January was 6222.81 or -5% of average. At that time, it would take about 22,800 acre feet to bring the lake level up to the natural rim. The forecast for the rise in Lake Tahoe is 1.0 feet or 67% of normal from April-High (assuming the gates are closed).

LAKE TAHOE BASIN

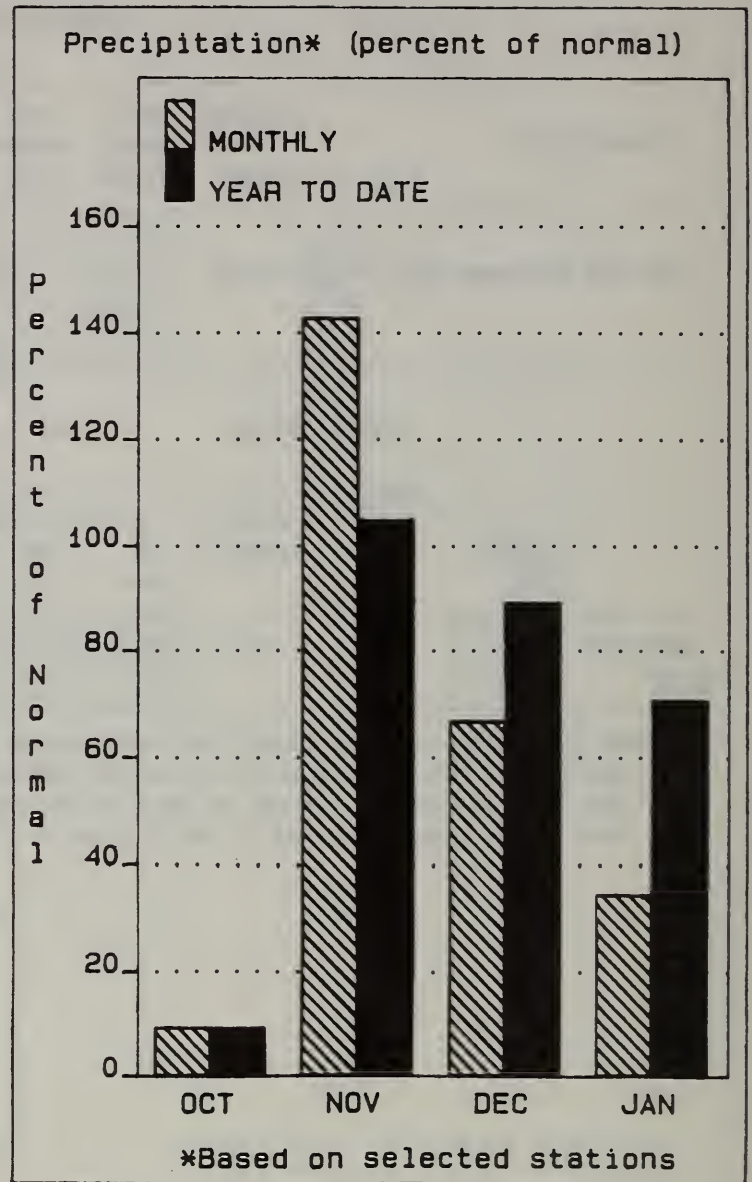
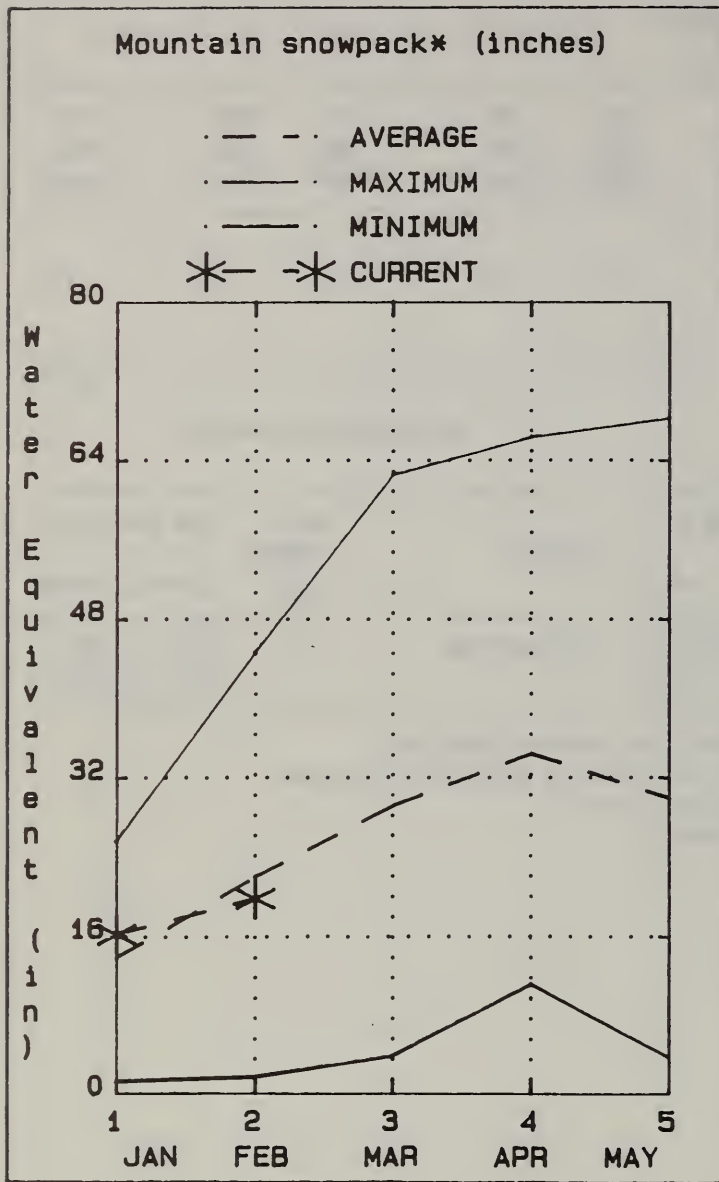
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
LAKE TAHOE RISE (assume gates closed) APR-HIG		1.0	67	1.3	0.7	2.0	0.3	1.5

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY :	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
LAKE TAHOE	744.6	-23.1	234.5	405.1	LAKE TAHOE RISE	16	121 87

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.
 REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.
 (1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.
 (2) - Corrected for upstream diversions or changes in reservoir storage.

TRUCKEE RIVER BASIN



Snowpack conditions in the Truckee River Basin managed to remain near average despite extremely low amounts of precipitation during January. The basin currently has 90% of the February 1 average and 120% of the water content present last year. January precipitation for the Truckee River Basin was 34% of average and 52% of last year. Precipitation since October 1, 1988 is 71% of average and 123% of last year. Reservoir storage on the last day of January was 52% of average. Total storage for Boca, Prosser and Stampede reservoirs was 78,890 acre feet. Streamflows in the Truckee River Basin are expected to be average to below average. The Truckee River at Farad is expected to flow at 81% of average or 230,000 acre feet during the April-July forecast period.

TRUCKEE RIVER BASIN

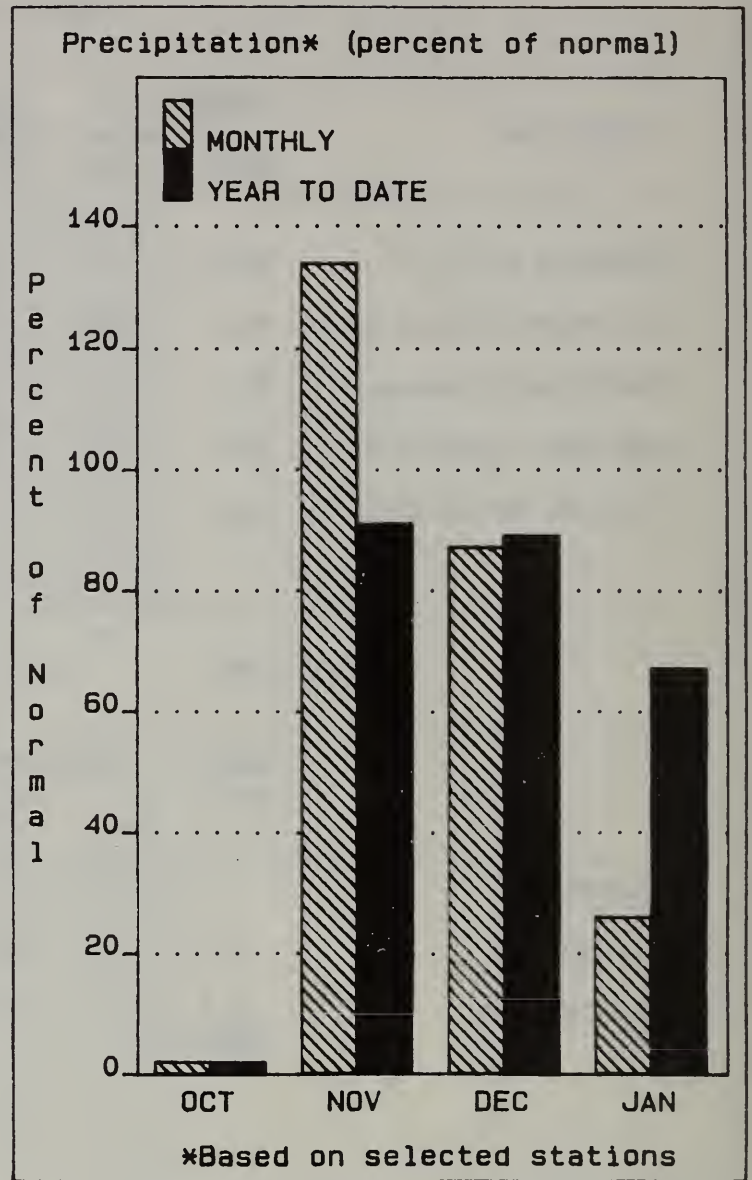
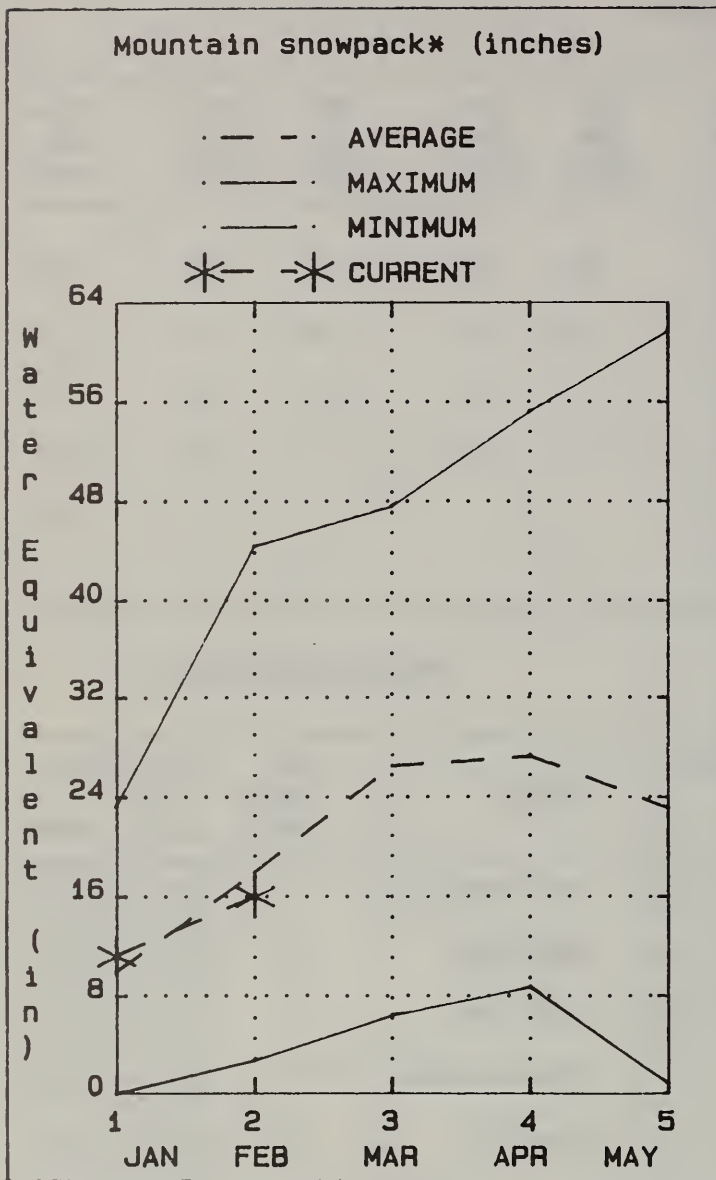
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
TRUCKEE RIVER at Farad 2	APR-JUL	230	81	285	184	410	59	285
LITTLE TRUCKEE RIVER above Boca 2	APR-JUL	77	84	93	61	138	23	92
STEAMBOAT CREEK at Steamboat 2	APR-JUL	6.0	85	7.1	4.9	10.0	2.0	7.1
GALENA CREEK nr Steamboat, Nv	APR-JUL	4.4	98	4.7	4.1	7.0	1.8	4.5
PYRAMID LAKE RISE (LOW 2/1/87)	LOW-HIGH	-0.3						1.2

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
BOCA RESERVOIR	40.9	10.3	10.5	18.5	LITTLE TRUCKEE RIVER	3	138	100
PROSSER RESERVOIR	28.6	7.5	9.8	8.4	SAGEHEN CREEK	5	127	99
STAMPEDE RESERVOIR	226.5	61.0	78.7	123.9	GALENA CREEK	2	147	104
					STEAMBOAT DRAINAGE	3	153	109
					PYRAMID LAKE	32	121	89

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 (2) - Corrected for upstream diversions or changes in reservoir storage.

CARSON RIVER BASIN



Snowpack conditions in the Carson River Basin were diminished due to low January precipitation. The basin currently has 89% of the February 1 average and 114% of the water content present last year. January precipitation for the Carson River Basin was 26% of average and 38% of last year. Precipitation since October 1, 1988 is 67% of average and 94% of last year. Reservoir storage on the last day of January was 25% of average. Total storage for Lahontan Reservoir was 48,658 acre feet. Streamflows in the Carson River Basin are expected to be near normal to below normal. The Carson River near Carson City is expected to flow at 71% of average or 140,000 acre feet during the April-July forecast period, with a peak flow of about 2777 acre feet. Peak flow for the East Fork of the Carson River near Gardnerville is expected to be about 3074 acre feet. Low flow (200 cfs) should occur on or about June 9, 1989.

CARSON RIVER BASIN

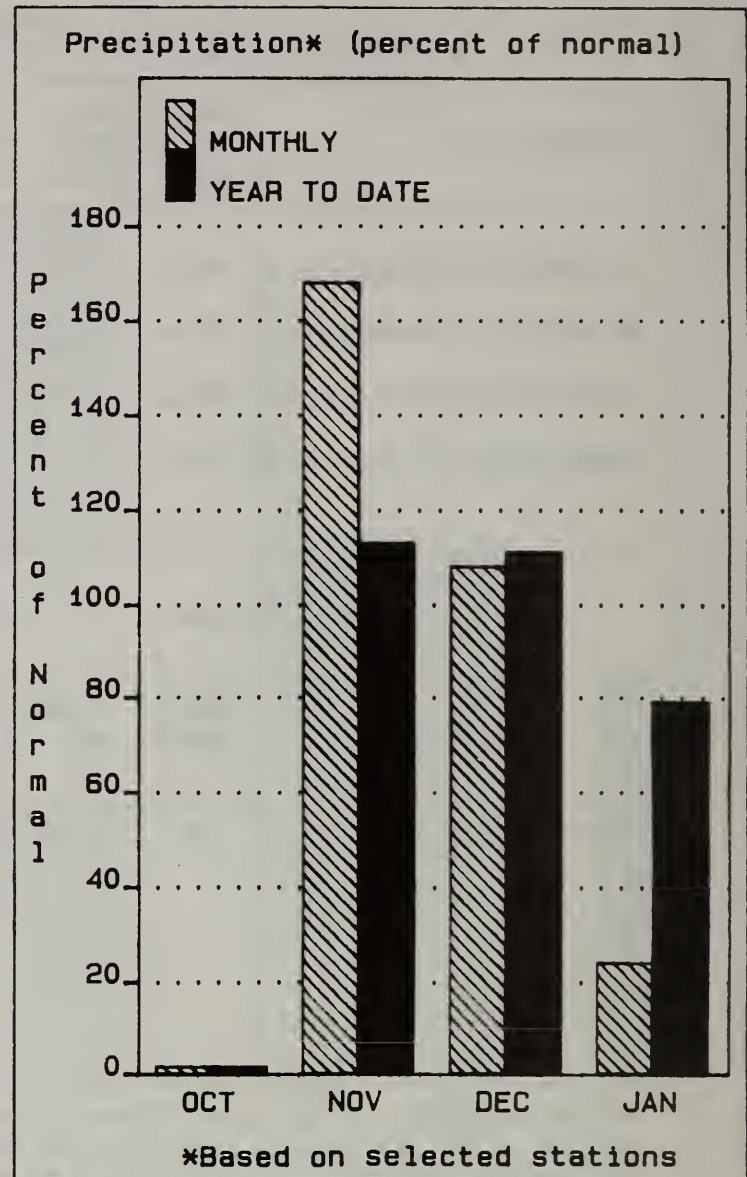
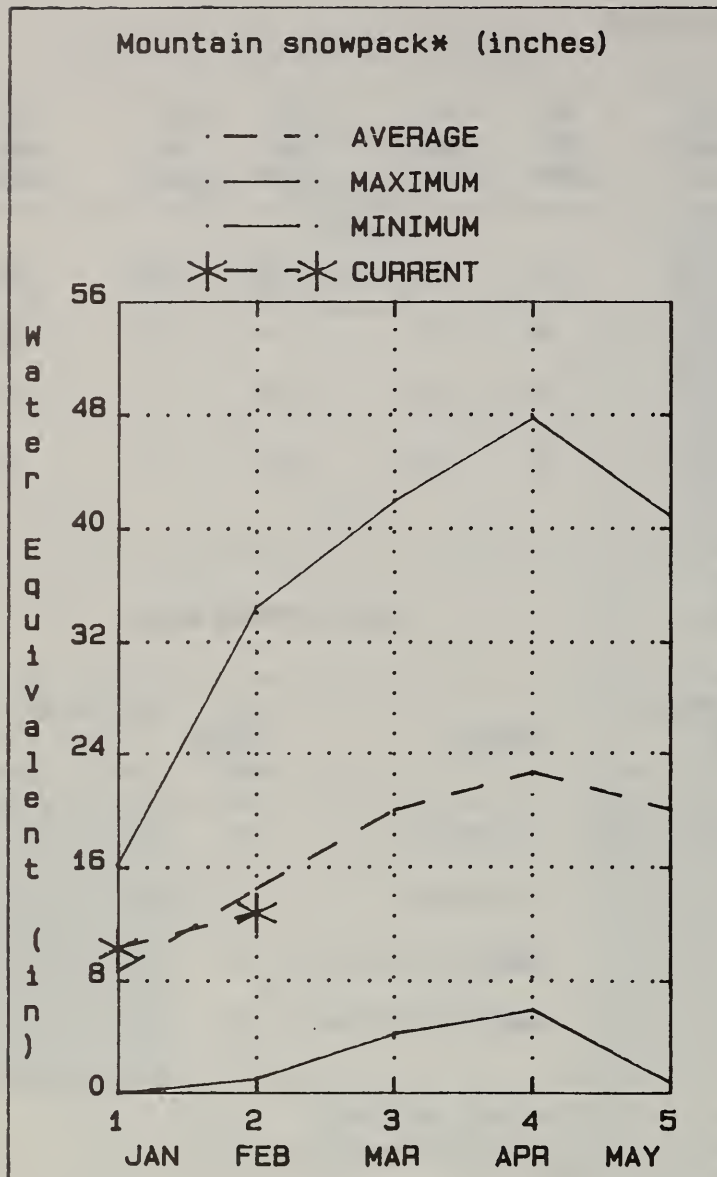
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
EF CARSON RIVER nr Gardnerville, Nv	APR-JUL	170	86	210	134	235	103	198
WF CARSON RIVER at Woodfords, Ca	APR-JUL	47	83	53	40	66	28	57
CARSON RIVER near Carson City, Nv	APR-JUL	140	71	170	106	255	51	198
CARSON RIVER near Ft. Churchill, Nv	APR-JUL	122	67	157	89	240	47	182

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
LAHONTAN RESERVOIR	295.1	48.7	128.3	194.6	E. CARSON RIVER	5	113
					W. CARSON RIVER	4	104
					CARSON Rv. at Carson City	5	118
					CARSON Rv. at Ft. Churchi	5	118

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WALKER RIVER BASIN



Snowpack conditions in the Walker River Basin dropped to below normal due to low January precipitation. The basin currently has 89% of the February 1 average and 117% of the water content present last year. January precipitation for the Walker River Basin was 24% of average and 34% of last year. Precipitation since October 1, 1988 is 79% of average and 99% of last year. Reservoir storage on the last day of December was 26% of average. Total storage for Bridgeport and Topaz reservoirs was 14,231 acre feet. Streamflows in the Walker River Basin are expected to be below average. The West Walker River near Coleville is expected to flow at 71% of average or 110,000 acre feet during the April-July forecast period, with a peak flow of about 2182 acre feet.

WALKER RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
EAST WALKER RIVER nr Bridgeport 2	APR-AUG	55	72	66	43	100	19.7	77
WEST WALKER RIVER near Coleville, Ca	APR-JUL	110	71	132	88	173	47	155
WALKER LAKE RISE (LOW 2/1/87)	LOW-HIG	-0.2						0.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
BRIDGEPORT RESERVOIR	42.5	7.1	12.9	28.3	E. WALKER Rv. nr Bridgepo	7	113 88
TOPAZ RESERVOIR	59.4	7.1	13.1	26.9	W. WALKER Rv. nr Colevill	8	124 89
					WALKER LAKE RISE	10	117 89

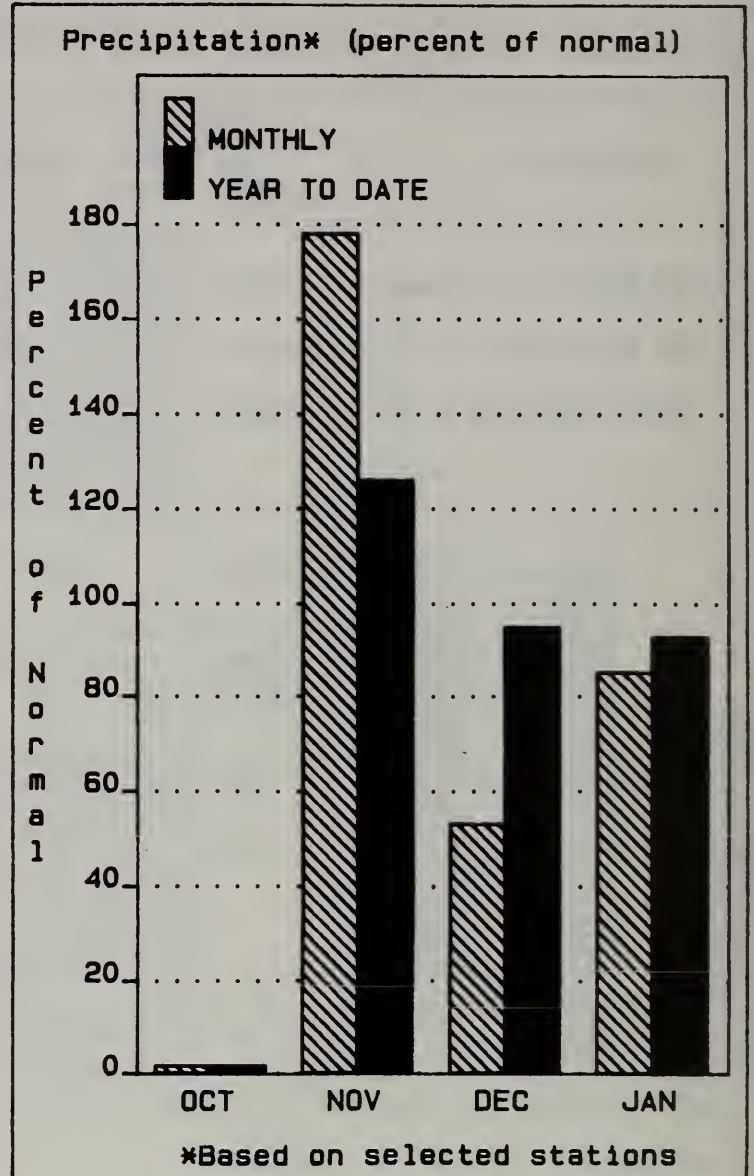
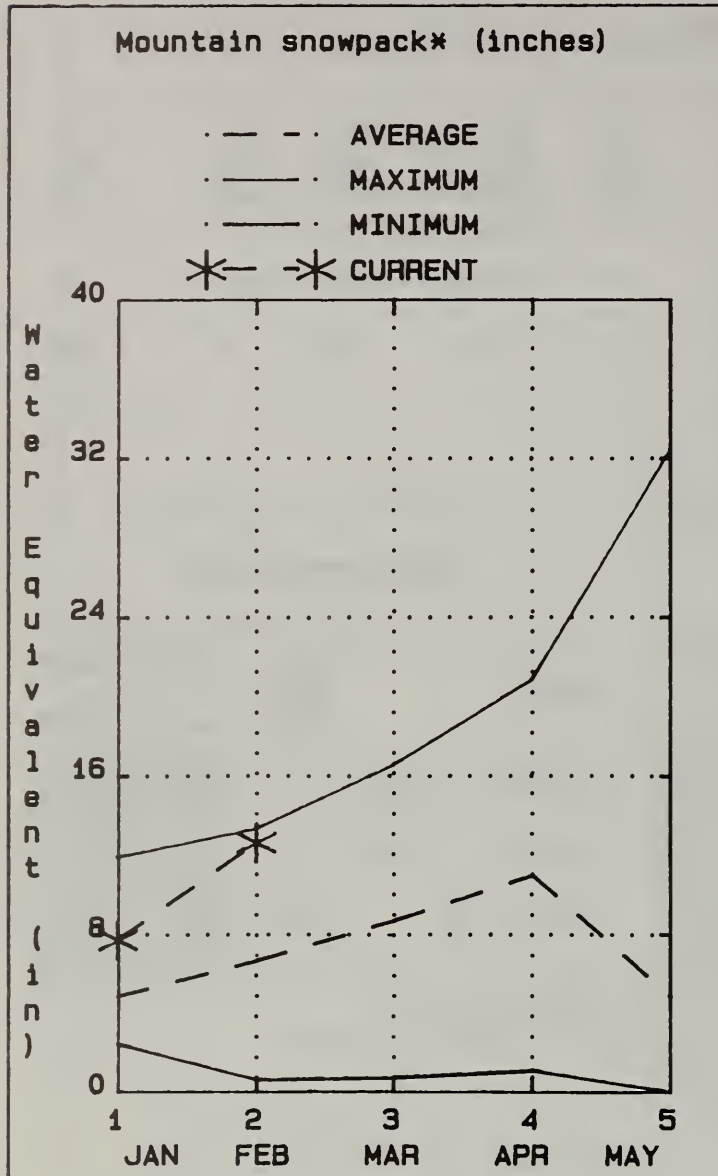
WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

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(2) - Corrected for upstream diversions or changes in reservoir storage.

NORTHERN GREAT BASIN



Snowpack conditions in the Northern Great Basin are well above average. The basin currently has 188% of the February 1 average and 185% of the water content present last year. Snow water content in the Bidwell Creek Watershed is about 177% of average. The Quinn River Watershed is about 155% of average. January precipitation for the Northern Great Basin was 85% of average and 82% of last year. Precipitation since October 1, 1988 is 93% of average and 148% of last year. Streamflows in the Northern Great Basin are expected to be above to well above normal. Bidwell Creek near Fort Bidwell is expected to flow at 130% of normal or 15,600 acre feet during the April-July forecast period. The Quinn River near McDermitt is forecast at 113% of average or 18,000 acre feet during the April-July forecast period.

NORTHERN GREAT BASIN

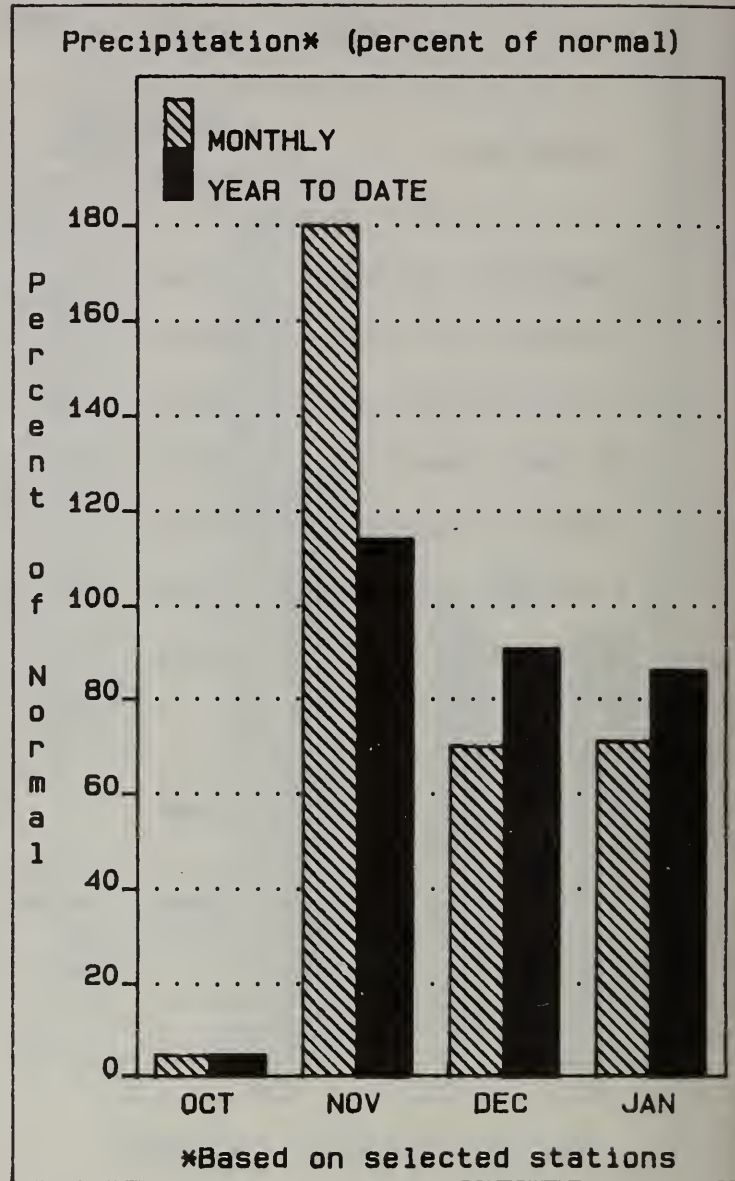
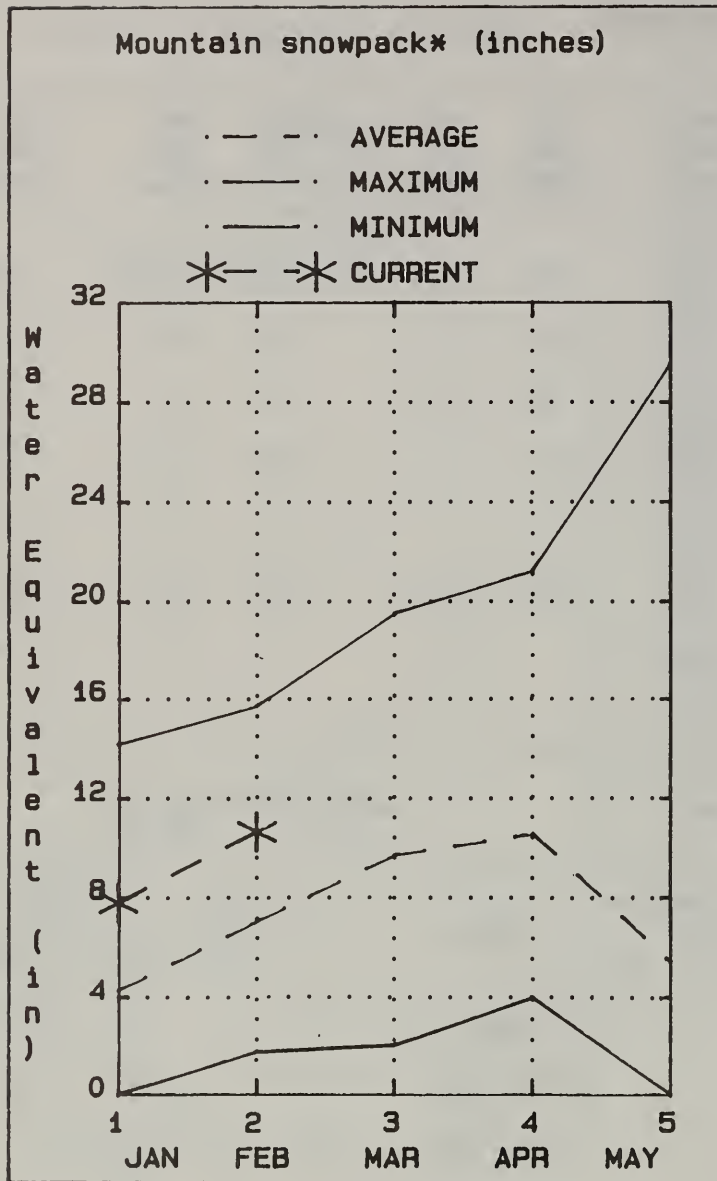
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
BIDWELL CREEK nr Fort Bidwell	APR-JUL	15.6	130	17.2	13.9	23	7.8	12.0
DEEP CREEK nr Cedarville, Ca	APR-JUL	4.5	125	4.9	4.1	6.8	2.2	3.6
EAGLE CREEK nr Eagleville, Ca	APR-JUL	5.2	121	5.8	4.6	8.0	2.4	4.3
MILL CREEK nr Cedarville, Ca	APR-JUL	5.5	134	6.1	4.9	8.2	2.8	4.1
QUINN RIVER nr McDermitt, Nv	APR-JUL	18.0	113			27	9.2	16.0
E. FORK QUINN RIVER nr McDermitt	APR-JUL	12.0	115	12.5	11.5	17.7	6.3	10.4
MCDERMITT CREEK nr McDermitt	APR-JUL	16.0	111			24	8.1	14.4

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY:	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D
						THIS YEAR AS % OF LAST YR. AVERAGE
					BIDWELL	3 177 157
					MILL CREEK	1 179 172
					DEEP CREEK	1 179 172
					EAGLE CREEK	1 179 172
					QUINN RIVER	1 155 433
					E. FORK QUINN	1 155 433
					MCDERMITT CREEK	1 155 433

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 (2) - Corrected for upstream diversions or changes in reservoir storage.

UPPER HUMBOLDT RIVER BASIN



Snowpack conditions, although lower than last month, remain well above average in the Upper Humboldt River Basin. The basin currently has 153% of the February 1 average and 153% of the water content present last year. January precipitation for the Upper Humboldt River Basin was 71% of average and 59% of last year. Precipitation since October 1, 1988 is 86% of average and 90% of last year. Streamflows in the Upper Humboldt River Basin are expected to be near to well above normal. The Humboldt River at Palisades is expected to flow at 117% of average or 365,000 acre feet during the March-July forecast period and 121% of average or 325,000 acre feet during the April-July forecast period.

UPPER HUMBOLDT RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
MARY'S RIVER nr Deeth	MAR-JUL	52	112	62	42	78	26	47
	APR-JUL	48	115	58	38	71	25	42
LAMOILLE CREEK nr Lamoille	MAR-JUL	32	105	36	28	45	18.9	31
	APR-JUL	31	105	36	27	44	18.3	30
NF HUMBOLDT RIVER at Devils Gate	MAR-JUL	63	106	72	54	114	12.0	59
	APR-JUL	50	128	60	41	84	16.3	39
HUMBOLDT RIVER nr Elko	MAR-JUL	240	132	280	200	395	84	182
	APR-JUL	200	130	240	161	335	67	154
S FORK HUMBOLDT RIVER at Dixie	MAR-JUL	105	112	128	82	175	35	94
	APR-JUL	100	114	125	74	166	34	88
HUMBOLDT RIVER near Carlin	MAR-JUL	360	131	425	290	595	124	274
	APR-JUL	300	126	360	235	505	96	238
HUMBOLDT RIVER at Palisades	MAR-JUL	365	117	475	255	635	97	312
	APR-JUL	325	121	440	215	555	94	269

RESERVOIR STORAGE (1000AF)

WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
					LAMOILLE CREEK	3	150	142
					S. FORK HUMBOLDT	6	143	151
					MARY'S RIVER	1	344	239
					N. FORK HUMBOLDT	2	161	143
					HUMBOLDT Rv. at Palisades	7	143	151
					HUMBOLDT RIVER at Comus	7	143	151

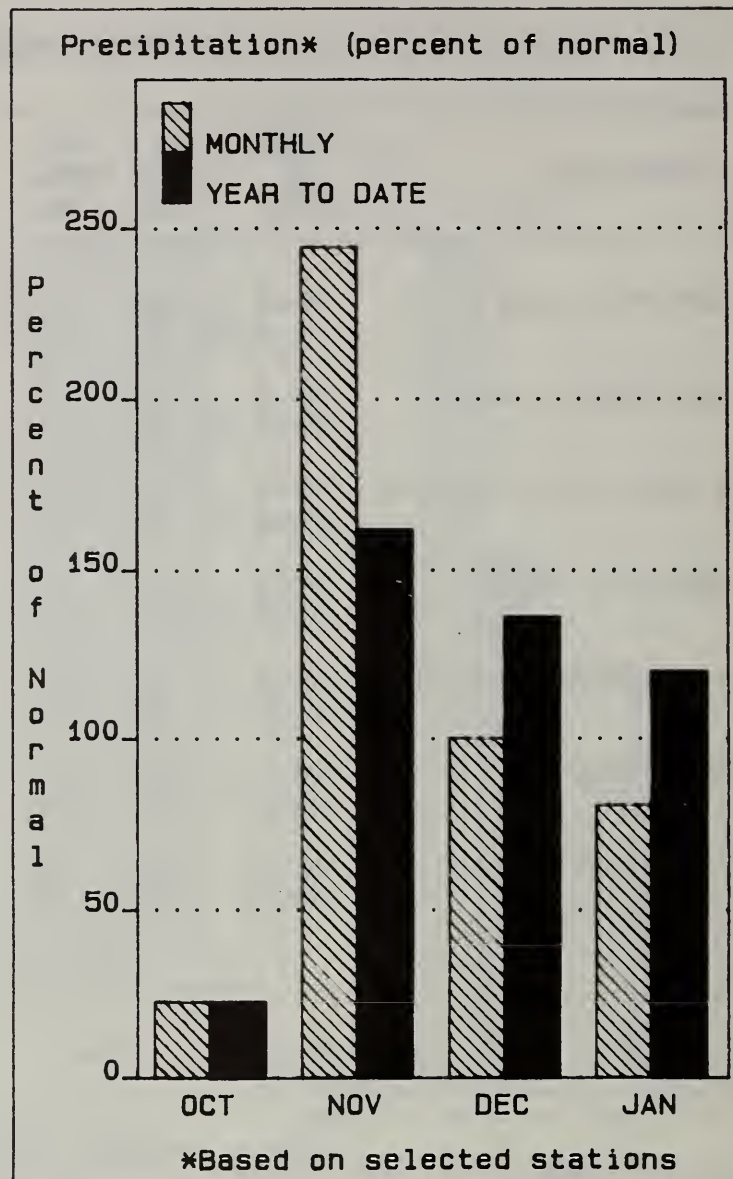
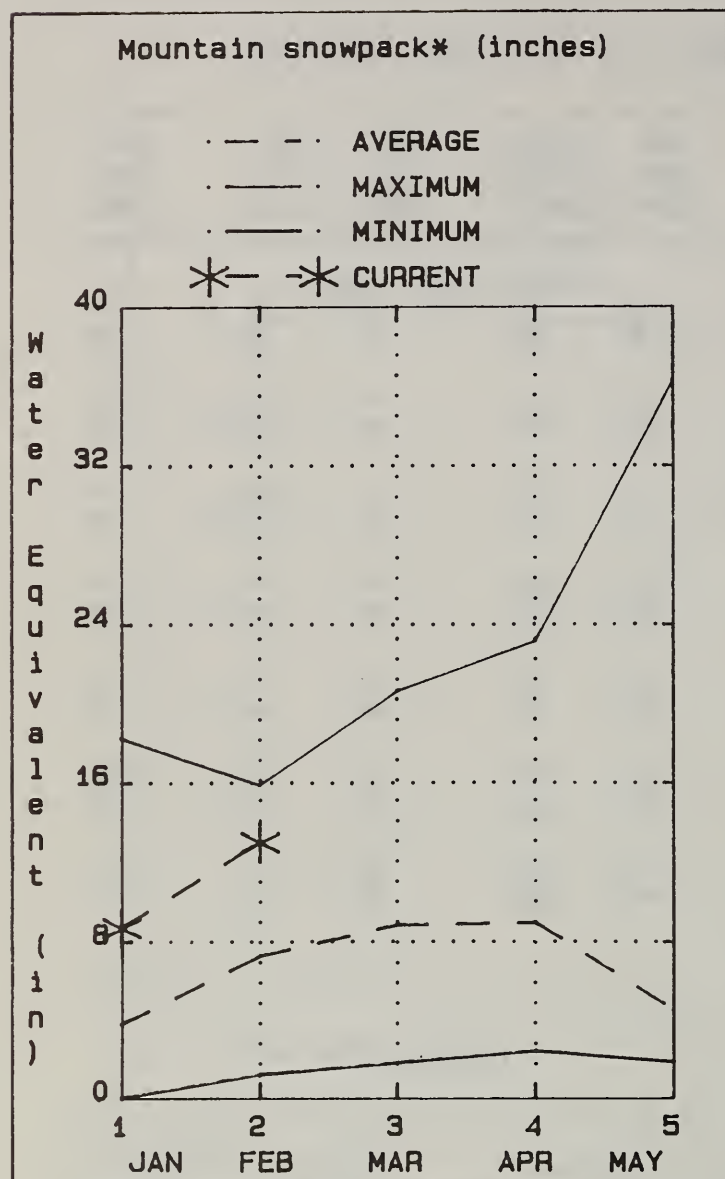
WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.

(1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

LOWER HUMBOLDT RIVER BASIN



Snowpack conditions in the Lower Humboldt River Basin remain well above average. The basin currently has 178% of the February 1 average and 147% of the water content present last year. January precipitation for the Lower Humboldt River Basin was 81% of average and 65% of last year. Precipitation since October 1, 1988 is 120% of average and 112% of last year. Reservoir storage on the last day of January was 9% of average. Total storage in Rye Patch Reservoir was 9164 acre feet. Streamflows in the Lower Humboldt River Basin are expected to be near to well above average. The Humboldt River at Comus is expected to flow at 116% of average or 265,000 acre feet during the April-July forecast period.

LOWER HUMBOLDT RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
REESE RIVER nr Ione Nv	APR-JUL	8.2	105			14.1	2.3	7.8
ROCK CREEK nr Battle Mtn.	APR-JUL	26	118	28	22	43	9.5	22
HUMBOLDT RIVER at Comus	APR-JUL	265	116	320	205	515	13.0	229
L. HUMBOLDT RIVER nr Paradise Valley	APR-JUL	16.0	128	16.7	14.0	23	9.1	12.5
MARTIN CREEK nr Paradise Nv	APR-JUL	28	147	31	25	38	17.6	19.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
RYE PATCH RESERVOIR	194.3	9.2	60.0	100.8	LITTLE HUMBOLDT RIVER	3	214	170
					MARTIN CREEK	3	214	170
					REESE RIVER	3	63	201
					ROCK CREEK	1	247	207

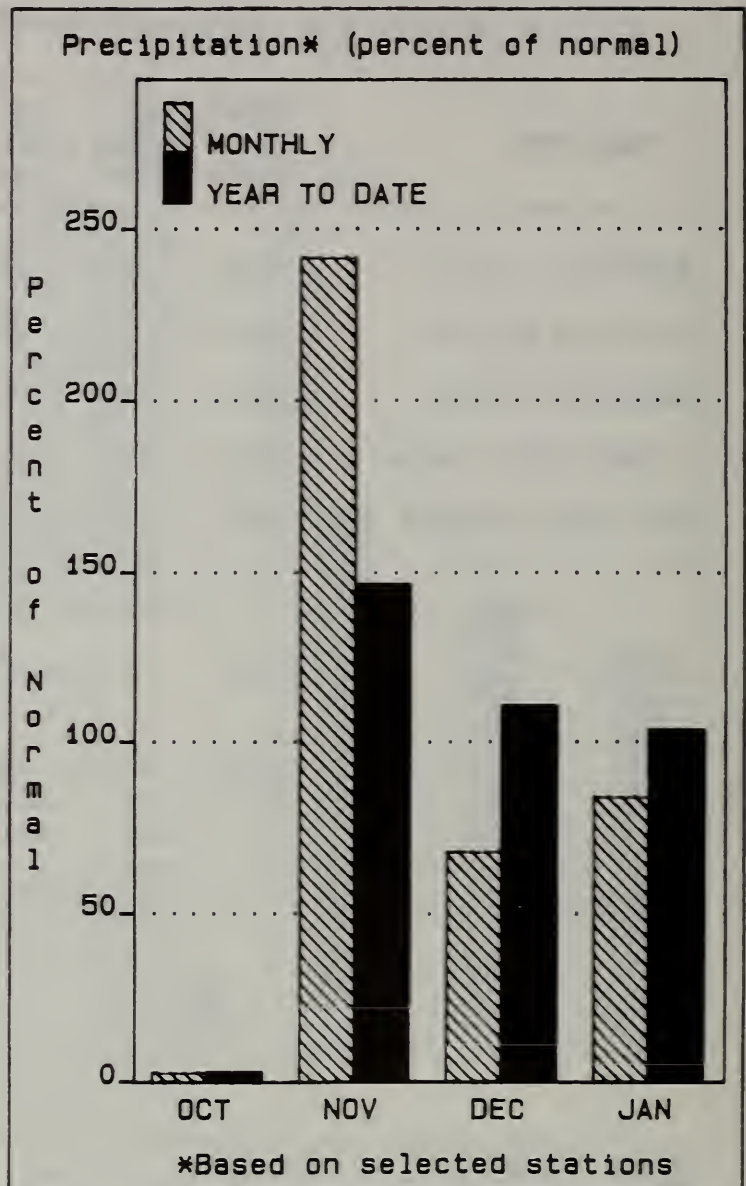
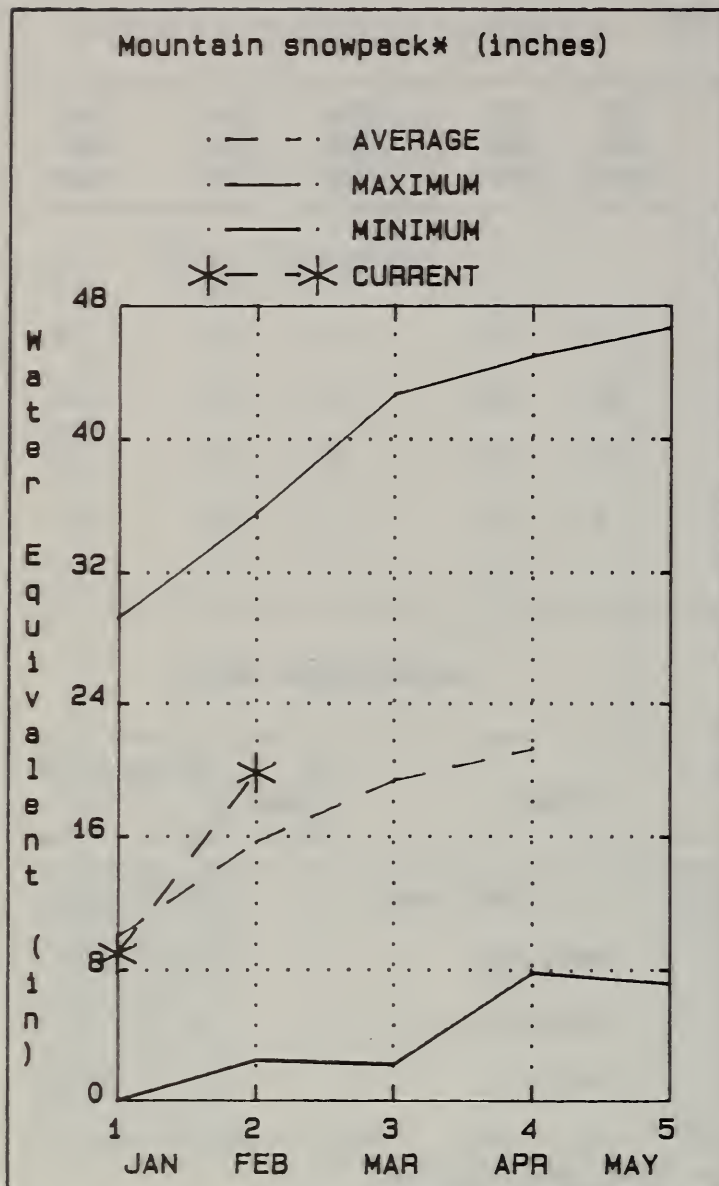
WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.

(1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

CLOVER VALLEY & FRANKLIN RIVER BASIN



Snowpack conditions in the Clover Valley & Franklin River Basin are above average. The basin currently has 127% of the February 1 average and 164% of the water content present last year. January precipitation for the Clover Valley & Franklin River Basin was 84% of average and 75% of last year. Precipitation since October 1, 1988 is 104% of average and 103% of last year. Streamflows in the Clover Valley & Franklin River Basin are expected to be well above average. The Franklin River near Arthur is expected to flow at 130% of average or 9000 acre feet during the April-July forecast period.

CLOVER VALLEY & FRANKLIN RIVER BASIN

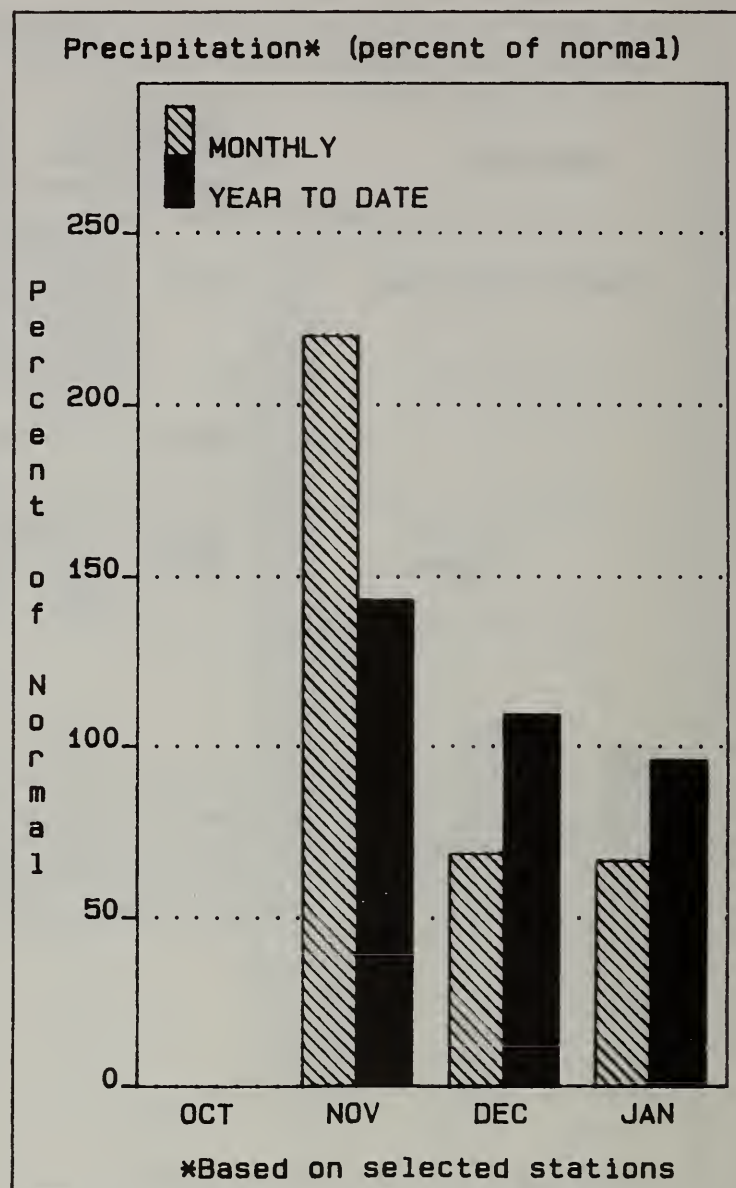
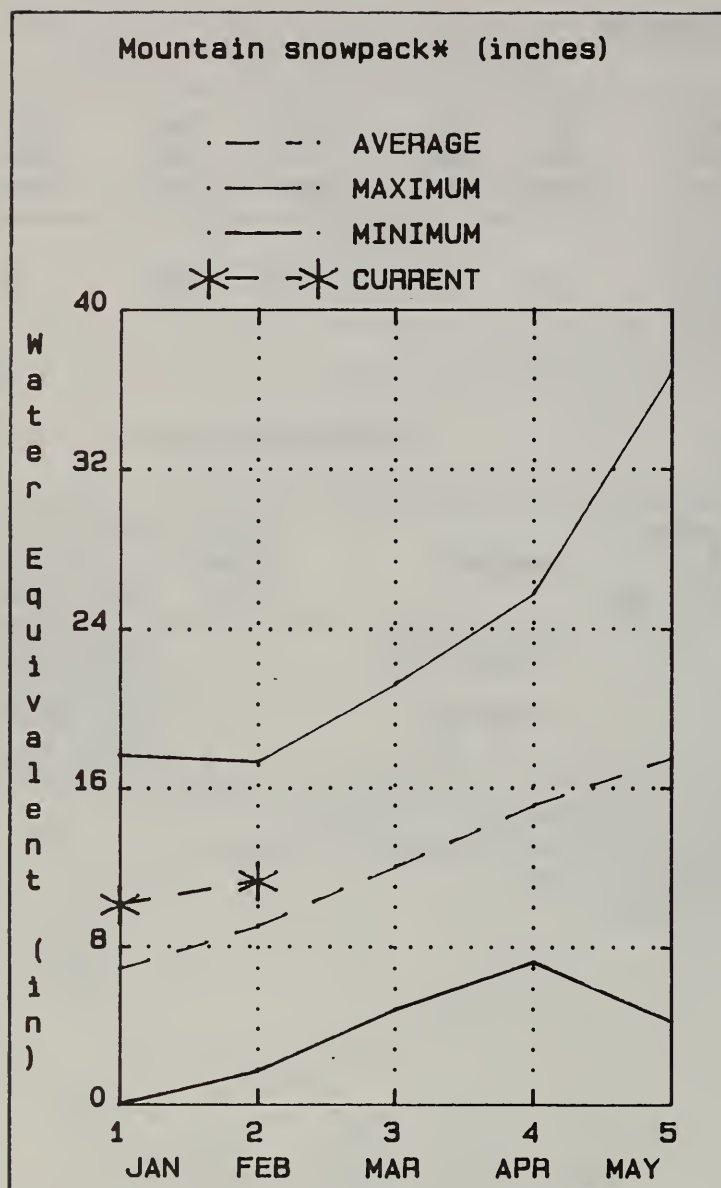
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
FRANKLIN RIVER nr Arthur	APR-JUL	9.0	130	9.4	8.6	14.2	3.8	6.9

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY:	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
					FRANKLIN RIVER	0	0
					CLOVER VALLEY	0	0

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.
 REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.
 (1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.
 (2) - Corrected for upstream diversions or changes in reservoir storage.

SNAKE RIVER BASIN



Snowpack conditions in the Snake River Basin are above average despite lower than normal precipitation during January. The basin currently has 125% of the February 1 average and 151% of the water content present last year. January precipitation for the Snake River Basin was 67% of average and 100% of last year. Precipitation since October 1, 1988 is 96% of average and 134% of last year. Streamflows in the Snake River Basin are expected to be above average. Salmon Falls Creek near San Jacinto is expected to flow at 111% of average or 108,000 acre feet during the March-July forecast period.

Snake River Basin

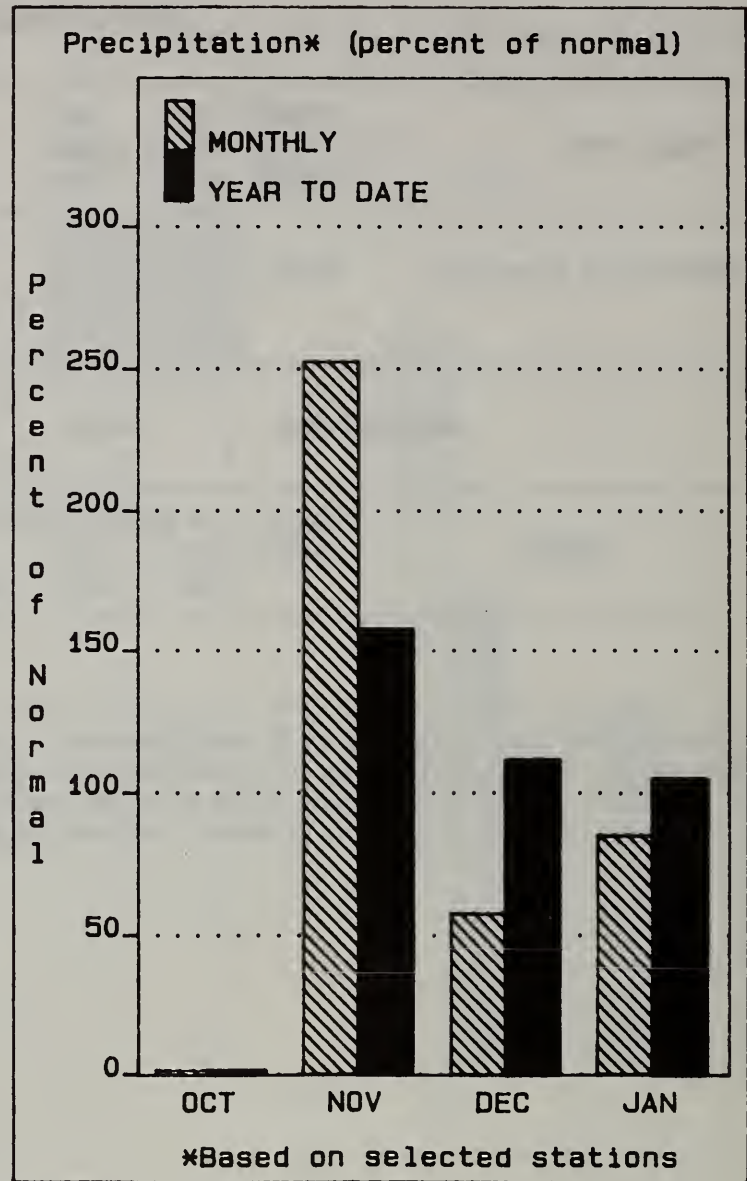
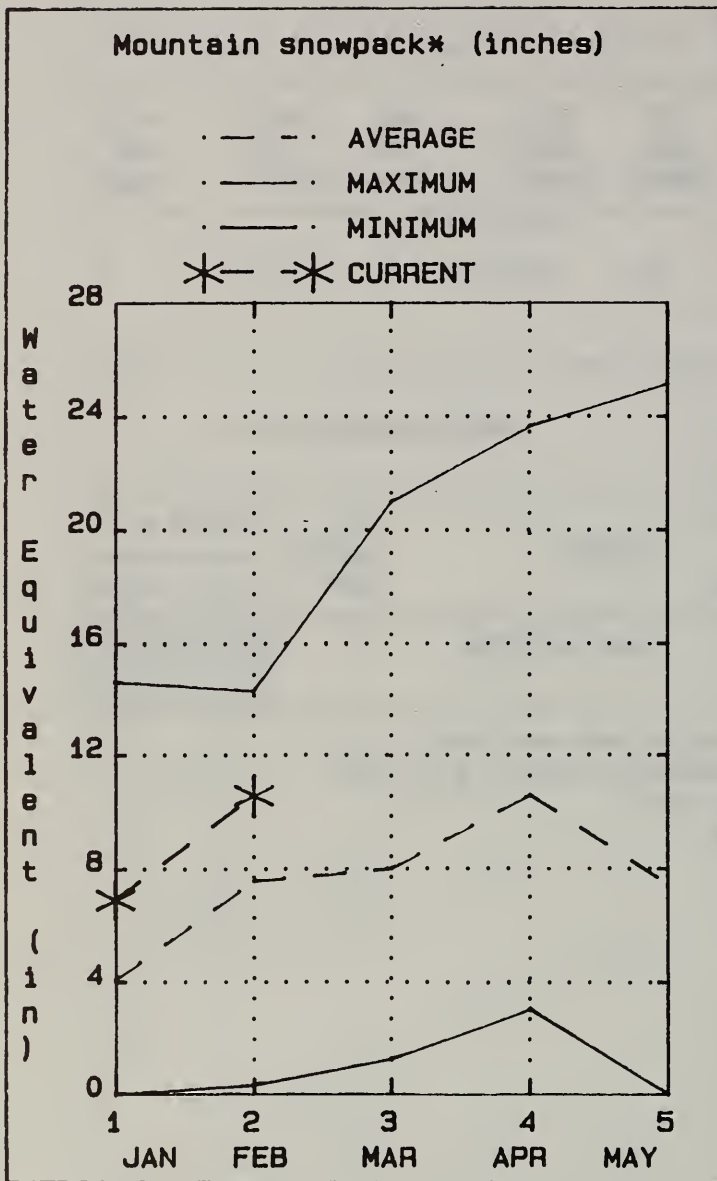
Streamflow Forecasts

Forecast Point	Forecast Period	Most Probable (1000AF)	Most Probable (% Avg.)	Wet Subs. (1000AF)	Dry Subs. (1000AF)	Reas. Max. (1000AF)	Reas. Min. (1000AF)	25 Yr. Avg. (1000AF)
SALMON FALLS CK nr San Jacinto	MAR-JUL	100	111	128	88	145	71	97

Reservoir Storage (1000AF)			Watershed Snowpack Analysis		
Reservoir	Useable Capacity	** Useable Storage ** This Year Last Year Avg.	Watershed	No. Courses Avg'd	This Year as % of Last Yr. Average
			SALMON FALLS CREEK	4	149 121

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.
 REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.
 (1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.
 (2) - Corrected for upstream diversions or changes in reservoir storage.

OWYHEE RIVER BASIN



Snowpack conditions in the Owyhee River Basin remain well above average. The basin currently has 139% of the February 1 average and 181% of the water content present last year. January precipitation for the Owyhee River Basin was 85% of average and 103% of last year. Precipitation since October 1, 1988 is 104% of average and 134% of last year. Reservoir storage on the last day of January was 45% of average. Total storage for Wildhorse Reservoir was 12,076 acre feet. Streamflows in the Owyhee River basin are expected to be near to above average. The Owyhee River near Owyhee is expected to flow at 105% of average or 90,000 acre feet during the April-July forecast period.

ONYHEE RIVER BASIN

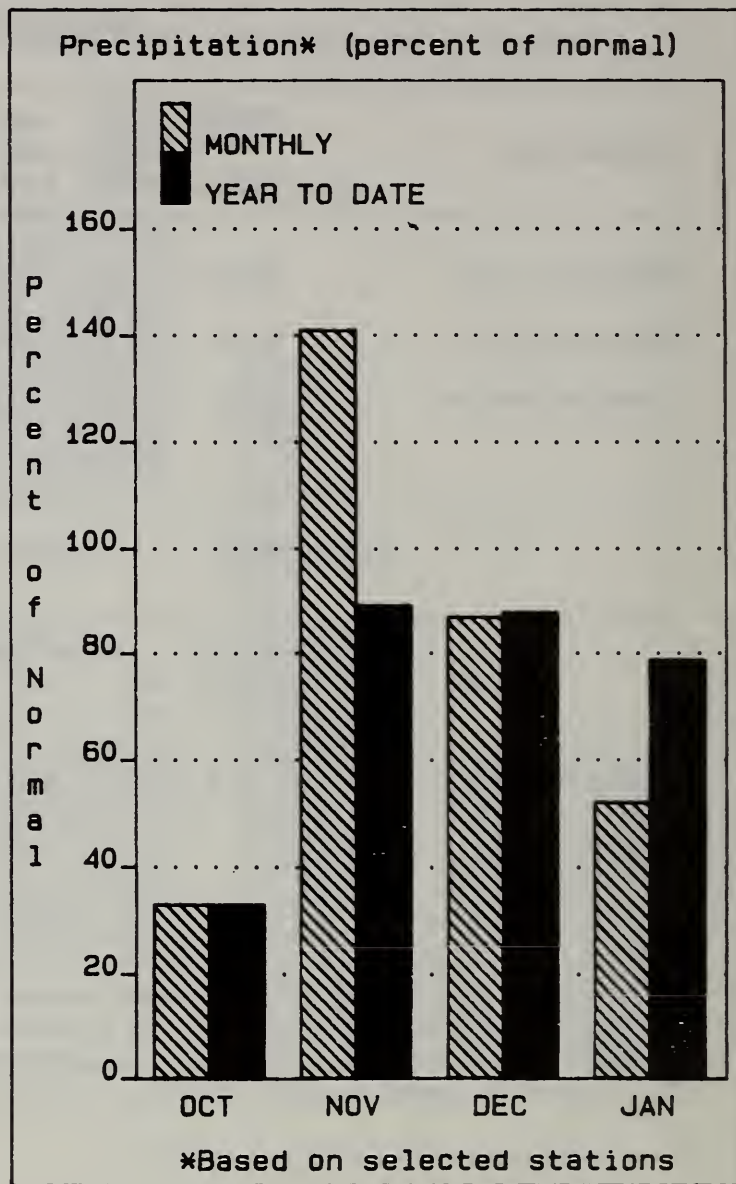
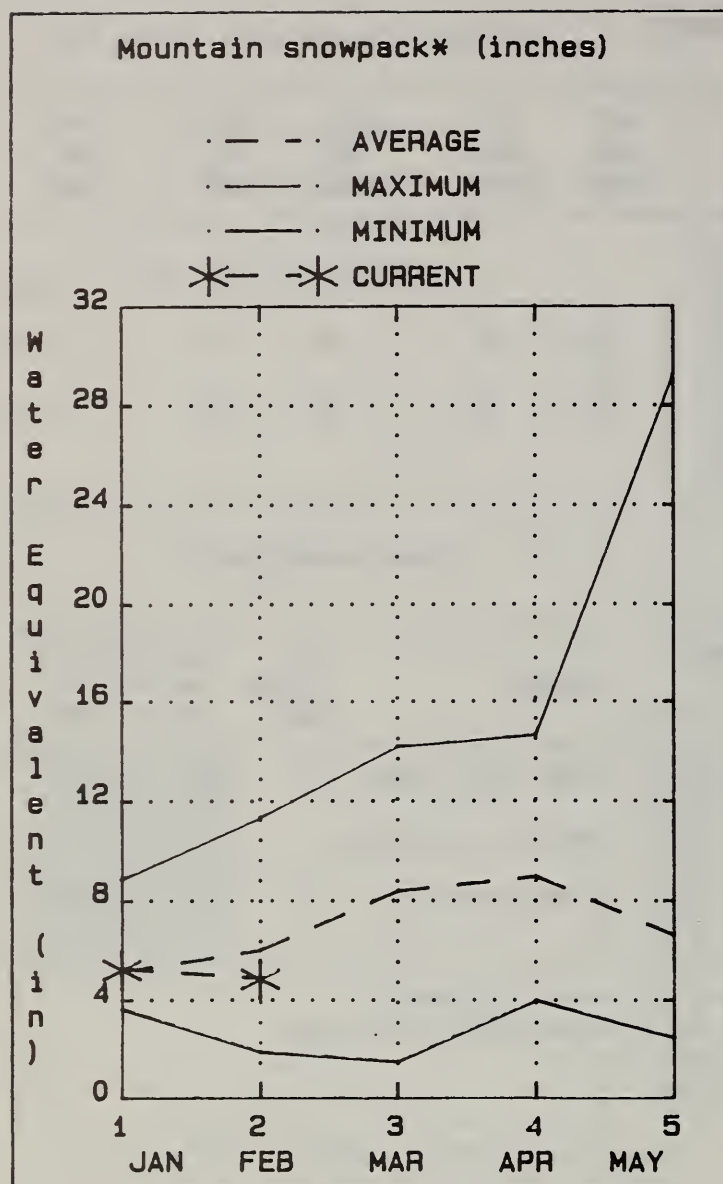
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
ONYHEE nr Gold Ck (2)	MAR-JUL	37	112			55	17.5	33
ONYHEE nr Owyhee (2)	APR-JUL	90	105	122	58	144	36	86
SF ONYHEE nr White Rock	APR-JUL	90	108	125	58	142	38	83

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
WILDHORSE RESERVOIR	71.5	12.1	21.6	26.6	ONYHEE RIVER nr Owyhee	5	101 149
					ONYHEE Rv. nr Gold Creek	1	106 135
					S. FORK ONYHEE RIVER	5	101 149

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.
 REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.
 (1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.
 (2) - Corrected for upstream diversions or changes in reservoir storage.

EASTERN NEVADA



Snowpack conditions in the Eastern Nevada Basin, based on SNOTEL (SNOW TELelemetry) readings, are below average. The basin currently has 81% of the February 1 average and 82% of the water content present last year. January precipitation for the Eastern Nevada Basin was 52% of average and 44% of last year. Precipitation since October 1, 1988 is 79% of average and 66% of last year. Streamflows in the Eastern Nevada Basin are expected to be above average. Steptoe Creek near Ely is expected to flow at 81% of average or 2600 acre feet during the April-July forecast period.

EASTERN NEVADA

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
KINGSTON CREEK nr Austin, Nv	APR-JUL	4.8	114	5.0	4.6	7.9	1.7	4.2
STEPTOE CREEK nr Ely	APR-JUL	2.6	81	3.0	2.2	5.0	1.0	3.2

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	THIS YEAR	LAST YEAR	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
				AVG.			
					KINGSTON CREEK	0	0 0
					STEPTOE VALLEY	0	0 0

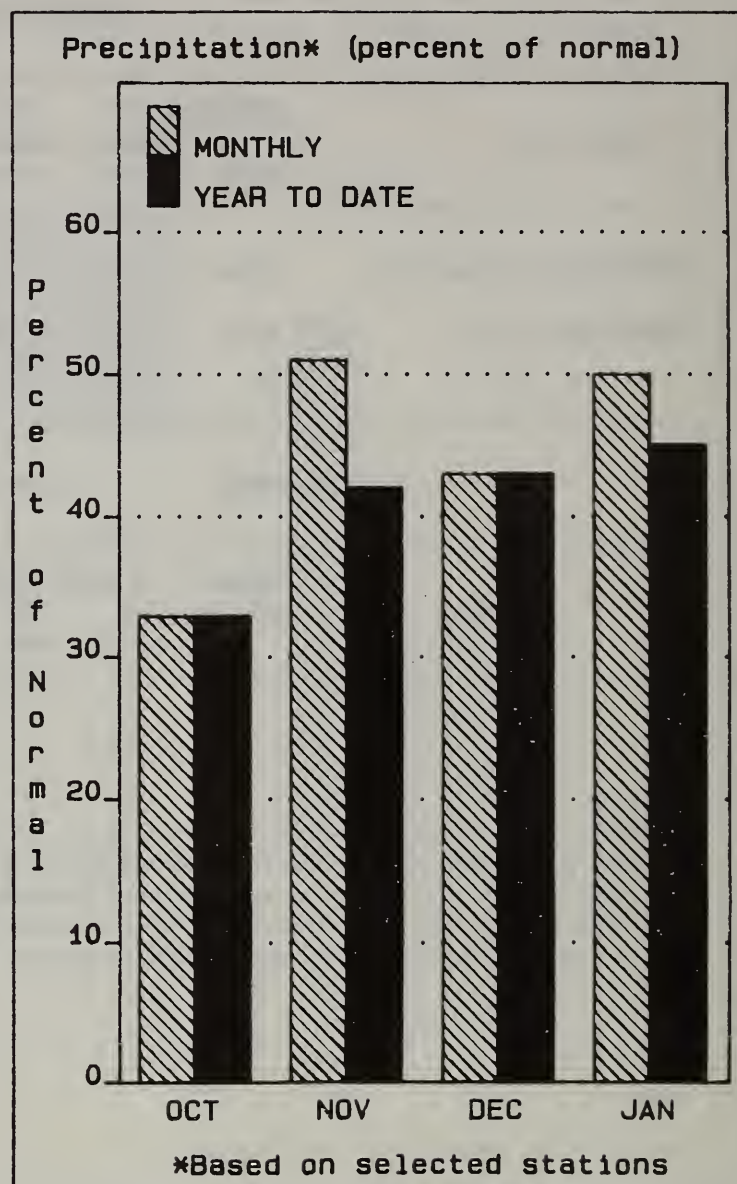
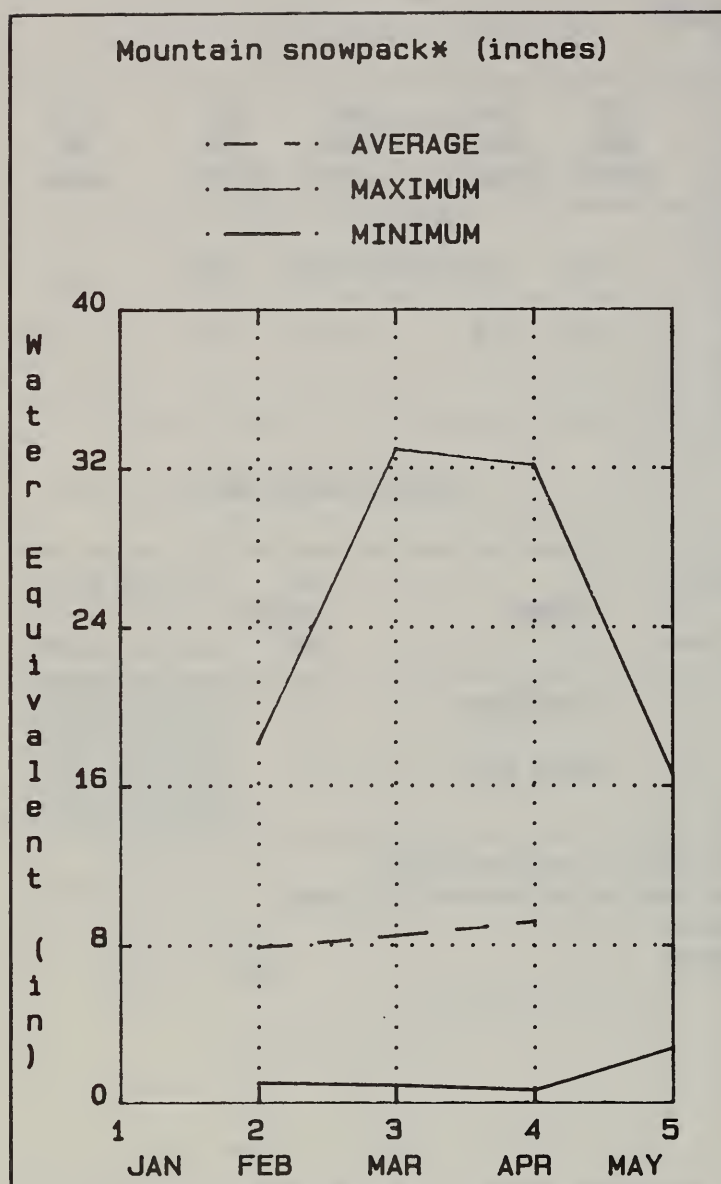
WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.

(1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

LOWER COLORADO RIVER BASIN



Snowpack conditions in the Virgin River Watershed are below average. The watershed currently has 70% of the February 1 average and 62% of the water content present last year. January precipitation for the Lower Colorado River Basin was 50% of average and 53% of last year. Precipitation since October 1, 1988 is 45% of average and 31% of last year. Reservoir storage on the last day of January was 119% of average. Total storage for Lake Mohave and Lake Mead was 24,835,500 acre feet. Streamflows in the Lower Colorado River Basin are expected to be below to well below average. The Colorado River inflow to Lake Powell is expected to be 79% of average or 6,400,000 acre feet during the April-July forecast period.

LOWER COLORADO RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
COLORADO RIVER Inf to Lake Powell 2	APR-JUL	6400	79	8580	4220	9630	3570	8086
VIRGIN near Hurricane	APR-JUN	45	66			77	14.4	68
VIRGIN RIVER near Littlefield	APR-JUN	36	54			72	14.6	67

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
LAKE MOHAVE	1810.0	1715.5	1636.0	1603.0	VIRGIN Rv. at Littlefield	4	62	70
LAKE MEAD	26159.0	23120.0	24574.0	19301.0	VIRGIN Rv. at Hurricane,	4	62	70

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.
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 (1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.
 (2) - Corrected for upstream diversions or changes in reservoir storage.

SNOW DATA MEASUREMENTS

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85

LAKE TAHOE BASIN						
ECHO PEAK (CA)	7800	1/30/89	63	24.6	21.1	27.8
ECHO SUMMIT (CA)	7450	2/01/89	50	16.3	14.8	22.1
FALLEN LEAF (CA)	6300	1/24/89	29	8.8	5.8	6.5
FREEL BENCH (CA)	7300	1/30/89	22	6.6	5.3	8.6
GLENBROOK #2	6900	2/01/89	---	6.4E	5.4	7.9
HAGANS MEADOW (CA)	8000	1/30/89	36	11.9	7.8	12.4
HEAVENLY VALLEY (CA)	8850	1/31/89	43	15.5	14.9	19.5
LAKE LUCILLE (CA)	8200	2/01/89	---	34.1E	29.2	39.1
MARLETTE LAKE	8000	1/30/89	45	14.5	9.1	14.5
RICHARDSONS #2 (CA)	6500	1/29/89	---	10.4E	9.6	10.7
RUBICON #1 (CA)	8100	2/01/89	---	24.4E	19.1	26.9
RUBICON #2 (CA)	7500	2/01/89	---	15.6E	17.3	24.4
TAHOE CITY CROSS (CA)	6750	1/29/89	33	12.0	9.9	13.3
TRUCKEE, UPPER (CA)	6400	1/30/89	25	6.7	3.7	6.9
WARD CREEK #2 (CA)	7000	2/01/89	64	23.7	20.7	26.6
WARD CREEK #3 (CA)	6750	1/30/89	63	22.7	17.1	23.5
TRUCKEE RIVER BASIN						
BIG MEADOWS	8300	1/30/89	43	14.2	10.3	19.1
BROCKWAY SUMMIT (CA)	7100	1/29/89	31	10.0	9.2	12.4
CASTLE CREEK (CA)	7400	2/01/89	77	28.1	27.6	33.8
DONNER SUMMIT (CA)	6900	1/25/89	61	22.1	21.0	24.8
FORDYCE LAKE (CA)	6500	1/27/89	66	24.4	19.9	24.3
FURNACE FLAT (CA)	6700	1/27/89	76	28.4	24.9	29.7
INDEPENDENCE CAMP CA	7000	1/30/89	39	12.0	10.0	14.5
INDEPENDENCE CREEK	6500	1/30/89	33	10.2	7.0	8.3
INDEPENDENCE LAKE CA	8450	1/30/89	75	26.3	18.1	25.6
LITTLE VALLEY	6300	1/30/89	27	7.4	3.6	4.6
MT. ROSE	9000	1/30/89	68	27.9	15.4	20.2
MT. ROSE SKI AREA	9000	2/01/89	67	23.8	19.7	29.5
SQUAW VALLEY #2 (CA)	7500	2/01/89	---	26.4E	26.3	32.5
SQUAW VALLEY G.C., CA	8200	2/01/89	---	29.7E	25.3	34.2
TAHOE CITY CROSS (CA)	6750	1/29/89	33	12.0	9.9	13.3
TRUCKEE #2 (CA)	6400	1/30/89	28	8.4	7.0	9.6
WEBBER LAKE (CA)	7000	1/25/89	62	20.7	--	--
WEBBER PEAK (CA)	8000	1/25/89	71	25.6	--	--

SNOW DATA MEASUREMENTS (CONT)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85

CARSON RIVER BASIN						
BLUE LAKES (CA)	8000	1/27/89	56	19.1	19.4	26.1
CARSON PASS, UP (CA)	8600	1/30/89	55	20.6	17.6	22.6
CLEAR CREEK	7300	1/26/89	30	7.4	5.3	7.3
EBBETTS PASS #2 (CA)	8700	1/30/89	51	22.0	17.7	26.1
MONITOR PASS AM(CA)	8350	1/30/89	35	11.2	--	--
POISON FLAT #2 (CA)	7900	1/30/89	41	14.9	10.0	11.6
SPRATT CREEK (CA)	6080	1/31/89	17	5.5	4.9	5.8
WET MEADOWS #2 (CA)	8100	1/30/89	59	22.1	22.9	25.9
WALKER RIVER BASIN						
LEAVITT LAKE (CA)	9400	1/30/89	60	25.7	22.5	30.7
LEAVITT MEADOWS (CA)	7200	1/30/89	22	8.7	4.8	6.8
LOBDELL LAKE (CA)	9200	1/30/89	33	8.4	6.7	12.0
SAWMILL RIDGE (CA)	8750	1/30/89	38	11.4	9.2	13.4
SONORA PASS (CA)	8800	1/30/89	43	16.4	12.1	16.9
TIOGA PASS (CA)	9900	1/26/89	40	13.3	17.6	18.4
VIRGINIA LAKES (CA)	9500	1/30/89	31	8.4	8.7	11.2
VIRGINIA LAKES RIDGE	9200	1/30/89	34	11.1	9.1	11.4
WILLOW FLAT (CA)	8250	1/30/89	24	9.3	6.8	7.6
NORTHERN GREAT BASIN						
BALD MOUNTAIN AM	6720	1/25/89	22	5.9	4.3	2.1
BARBER CREEK (CA)	6500	1/27/89	44	14.0	7.2	8.0
CEDAR PASS (CA)	7100	1/26/89	52	17.7	9.9	10.3
DISMAL SWAMP #2 (CA)	7000	1/30/89	69	26.0	15.5	18.5
FORTY-NINE MOUNTAIN	6000	1/31/89	24	6.5	4.4	3.1
GOVERNMENT CORRALS	7450	2/06/89	44	12.5	7.3	--
HAYS CANYON	6400	1/27/89	20	5.0	3.1	2.7
LITTLE BALLY MTN. AM	6000	1/25/89	24	6.7	2.4	2.6
MT. BIDWELL (CA)	7200	1/30/89	60	22.0	13.9	--
QUINN RIDGE AM	6300	1/27/89	21	6.5	4.2	1.5
TROUT CREEK AM	7800	1/27/89	40	13.6	5.5	5.9

SNOW DATA MEASUREMENTS (CONT)

SNOW COURSE		ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85

SNAKE RIVER BASIN							
BEAR CREEK		7800	1/30/89	---	17.1E	10.4	13.5
GOAT CREEK		8800	1/30/89	---	14.4E	9.8	11.7
HUMMINGBIRD SPRINGS		8950	1/30/89	---	20.3E	13.8	15.5
JAKES CREEK	AM	7000	1/30/89	27	6.2	--	3.7
MERRIT MOUNTAIN	AM	7000	1/30/89	33	8.9	--	5.0
POLE CREEK R.S.		8330	1/30/89	---	17.4E	11.8	13.0
SEVENTYSIX CREEK		7100	2/01/89	---	7.5E	5.8	8.3
STAG MOUNTAIN	AM	7700	1/30/89	21	5.7	3.0	3.7
OWYHEE RIVER BASIN							
BIG BEND		6700	1/31/89	31	8.4	5.4	6.2
COLUMBIA BASIN	AM	6650	1/30/89	32	9.1	--	6.5
GOLD CREEK		6600	1/31/89	23	6.3	3.7	3.9
JACK CREEK, LOWER		6800	1/30/89	18	4.5	4.6	2.6
JACK CREEK, UPPER		7250	1/30/89	31	9.1	6.0	5.3
JACKS PEAK		8420	2/01/89	---	20.3E	9.4	14.4
LAUREL DRAW		6700	2/01/89	---	8.2E	5.3	5.8
LOUSE CANYON	AM	6440	1/27/89	33	11.6	3.4	4.1
TAYLOR CANYON		6200	1/31/89	26	7.3	3.3	4.1
UPPER HUMBOLDT RIVER BASIN							
AMERICAN BEAUTY	AM	7800	1/30/89	26	6.8	--	5.7
CORRAL CANYON		8500	2/01/89	---	12.5E	11.4	8.2
DORSEY BASIN		8100	2/01/89	---	12.7E	8.9	7.8
FRY CANYON		6700	2/01/89	---	7.6E	4.6	5.5
GREEN MOUNTAIN		8000	2/01/89	---	15.0E	9.2	8.8
LAMOILLE #1		7100	2/01/89	39	10.1	7.1	5.9
LAMOILLE #3		7700	2/01/89	39	10.4	7.4	8.1
LAMOILLE #5		8700	2/02/89	74	24.8	15.8	17.9
ROBINSON LAKE	AM	9200	1/30/89	78	25.7	--	19.5
SMITH CREEK		7700	2/01/89	---	12.0E	9.0	--
TENT MTN, LOWER	AM	7000	1/30/89	29	7.5	--	8.5
TENT MTN, UPPER	AM	8350	1/30/89	49	14.4	--	15.1
TREMEWAN RANCH		5700	1/31/89	13	2.4	1.6	1.5
TROUT CREEK, UPPER	AM	8500	1/30/89	34	11.2	8.8	9.4

SNOW DATA MEASUREMENTS (CONT)

SNOW COURSE		ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85

LOWER HUMBOLDT RIVER BASIN							
BIG CREEK MINE		7600	2/01/89	---	4.6E	7.7	3.4
BIG CREEK SUMMIT		8700	2/01/89	---	13.4S	20.5	6.3
BIG CREEK, UPPER		7800	2/01/89	---	9.1E	14.9	3.8
GRANITE PEAK		7800	2/01/89	---	16.4E	9.2	11.3
LAMANCE CREEK		6000	2/01/89	---	14.3E	5.8	6.9
MIDAS		7200	1/30/89	20	4.6	.8	2.9
SNOWSTORM MTN	AM	7420	1/30/89	28	6.4	--	10.3
TOE JAM AM	AM	7700	1/30/89	28	7.7	--	7.4

FOR MORE INFORMATION, CONTACT YOUR LOCAL SOIL CONSERVATION SERVICE OFFICE

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125 Carson Road, 153-9
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(702) 237-5251

LAS VEGAS FIELD OFFICE

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(702) 883-2623 (Carson City/Reno)

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(916) 279-6110



The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

STATE

California Cooperative Snow Surveys
California Department of Parks and Recreation
California Department of Water Resources
Colorado River Commission of Nevada
Idaho Cooperative Snow Surveys
Nevada Association of Conservation Districts
Nevada Department of Conservation & Natural Resources
 Division of Water Resources
 Nevada State Forester
 Division of Conservation Districts
Oregon Cooperative Snow Surveys
University of Nevada, Desert Research Institute
Utah Cooperative Snow Surveys

FEDERAL

Bureau of Reclamation
Forest Service
Geological Survey
Soil Conservation Service
U.S. District Court - Federal Water Master
MOAA, National Weather Service

PRIVATE

Nevada Irrigation District
Owyhee Project North Board of Control
Owyhee Project South Board of Control
Pacific Gas and Electric Company
Pershing County Water Conservation District
Sierra Pacific Power Company
Truckee - Carson Irrigation District
Walker River Irrigation District
Washoe County Water Conservancy District
Las Vegas Valley Water District

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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SOIL CONSERVATION SERVICE
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